TRIGGERS ASSIGNMENT

Team Enjoy!
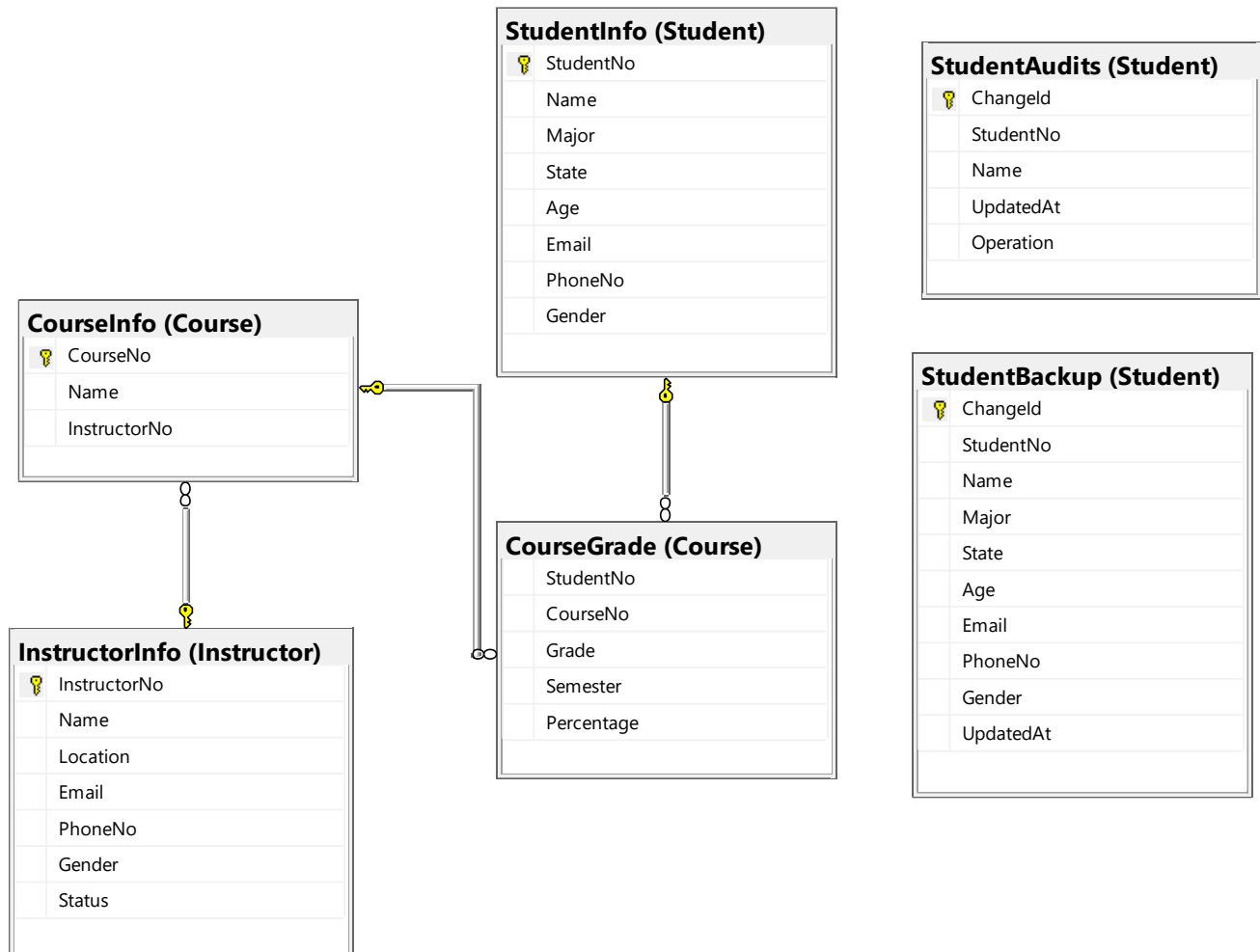
Chukwuebeka Ezema
Neti Sheth
Josh Stamper
Yagna Venkitasamy
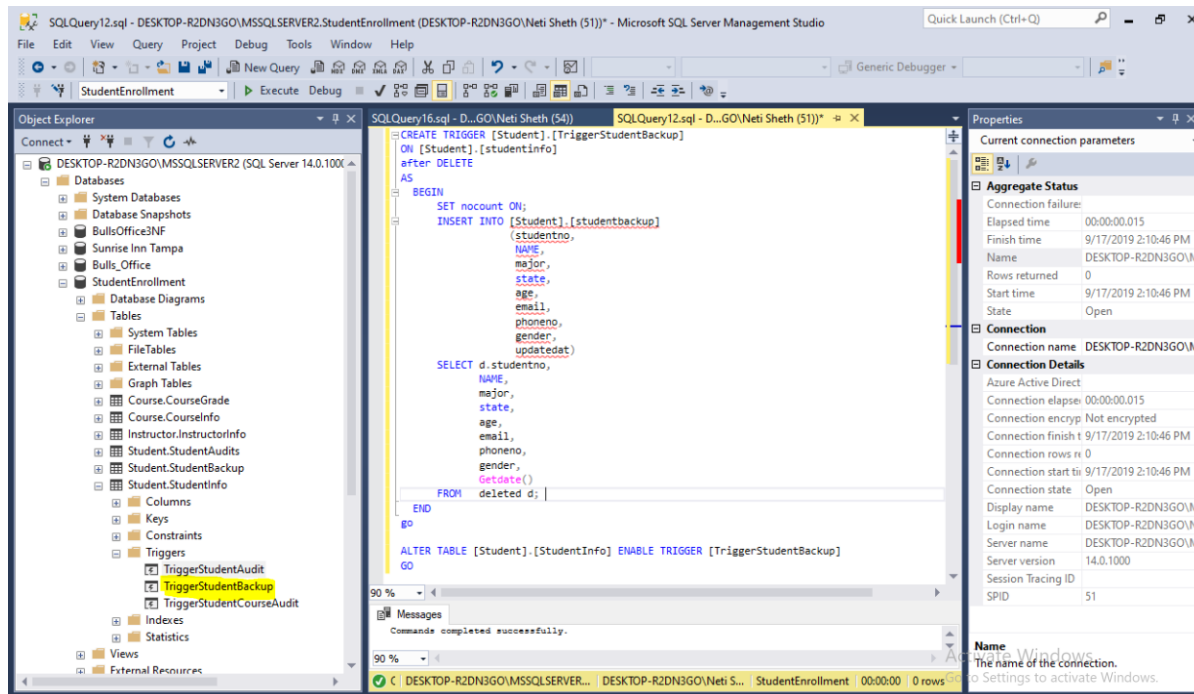
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Introduction:

Let's consider the example of Student Enrollment process. A student would register for courses which are taught by instructors. After completing the course, the student would get the grade. We want to keep a track of all the students, instructors, courses and grades. We also have 2 additional tables for backups and audits. I have created 3 schemas – Student, Instructor and Course. The database diagram is as follows:
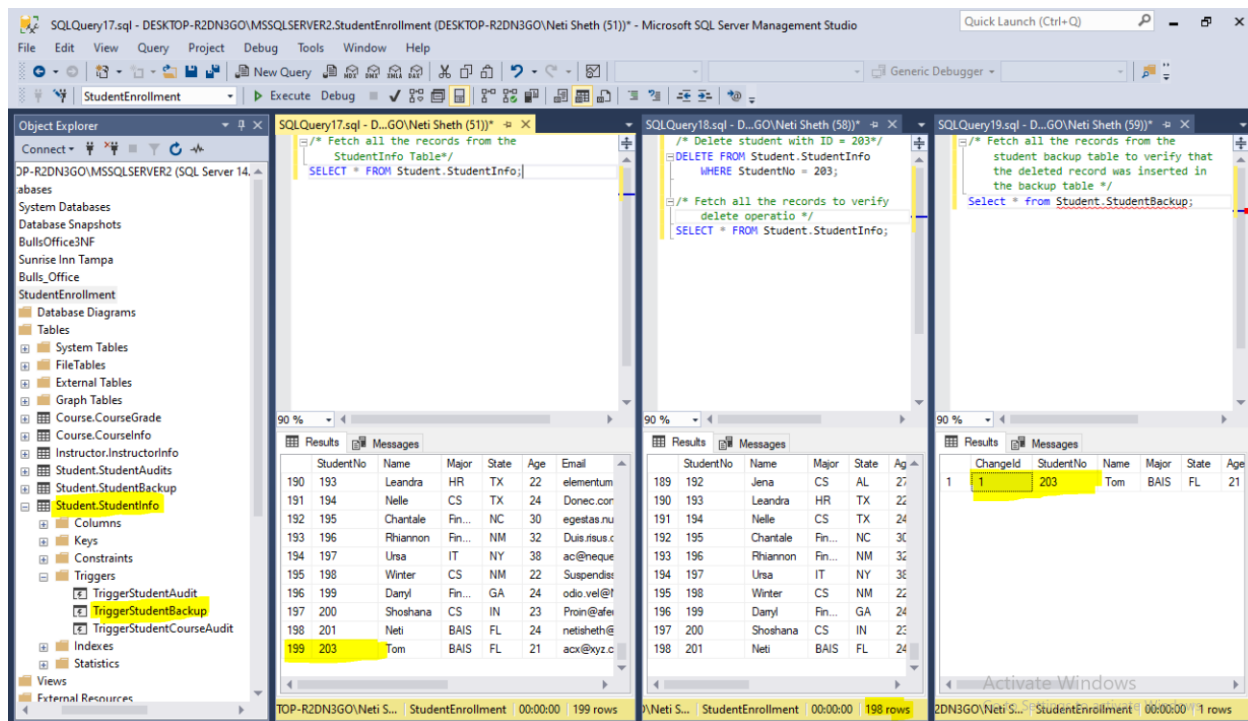
1. Create a trigger to backup records if a user attempts to delete a record

Users story: As a system administrator, I want to keep a backup of all the student records.

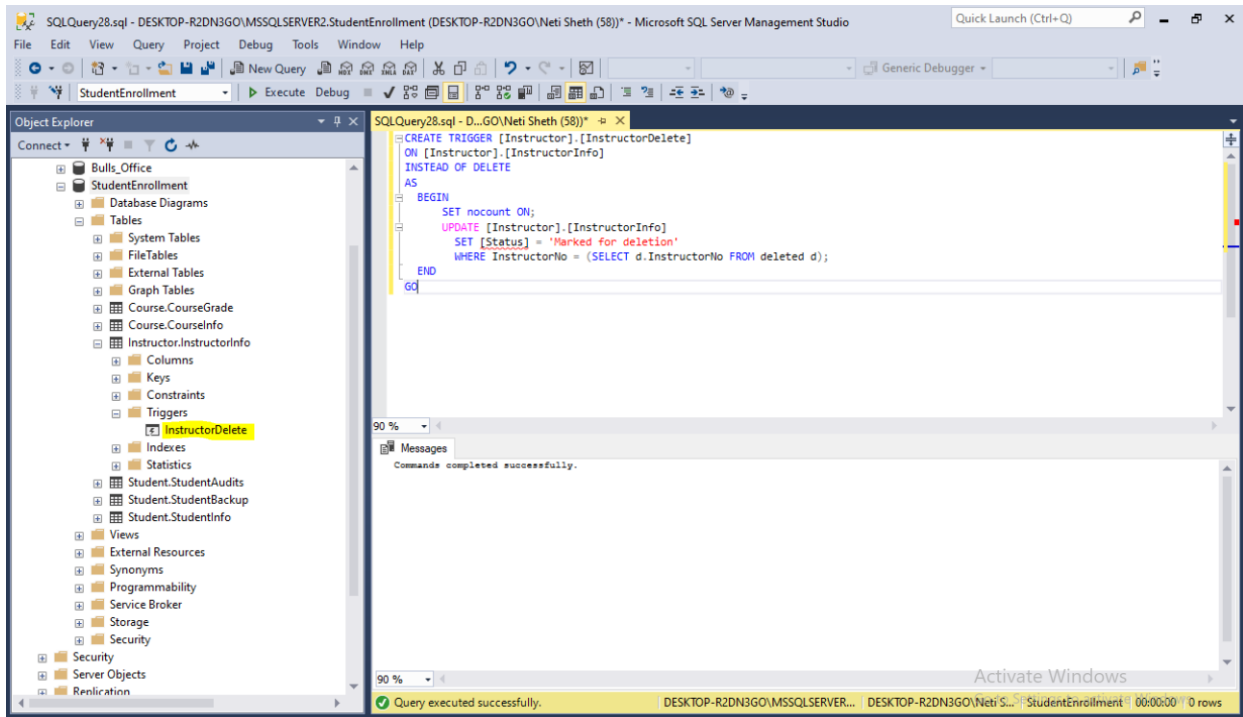This trigger will insert the deleted record in the StudentBackup table.

Testing the trigger: Let's delete a record from the StudentInfo table and then check if the record was inserted in the backup table.
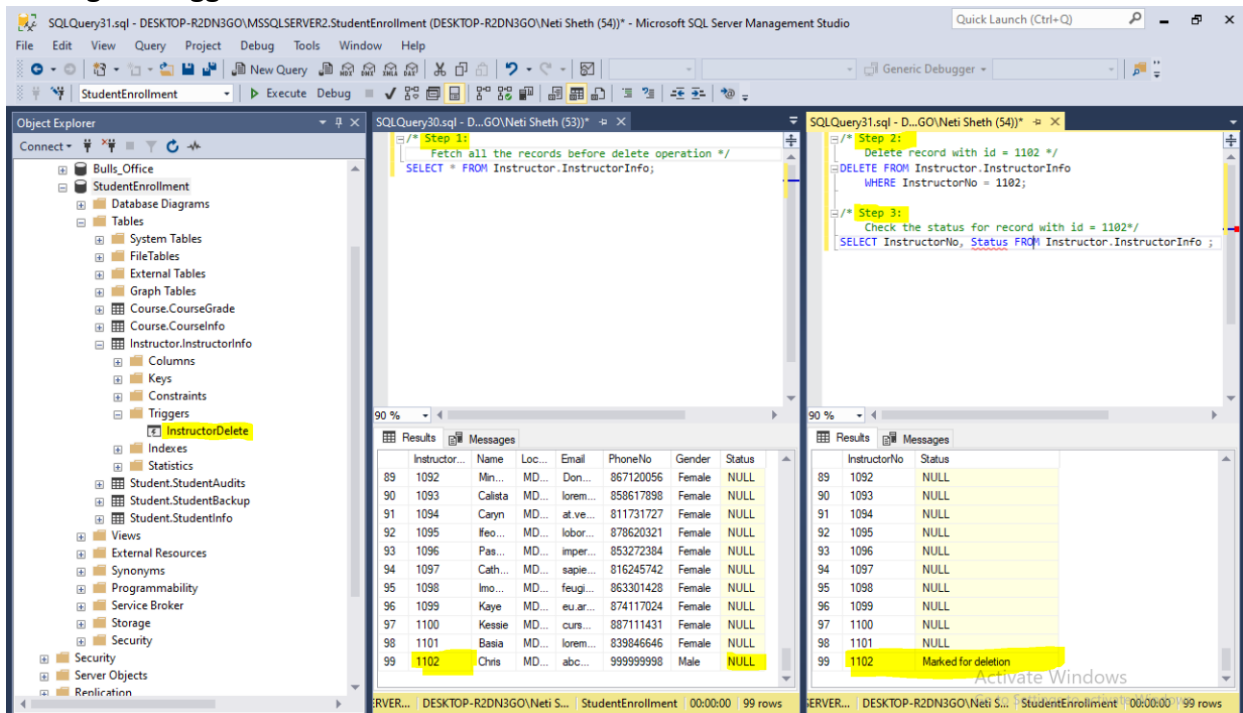
2. Create an instead trigger to prevent a record from being deleted.

User story: As a HR, I want to update the status of the instructor instead of deleting, so that I can I can have all the records for future references.

This trigger will update the status for the instructor as 'Marked for deletion':
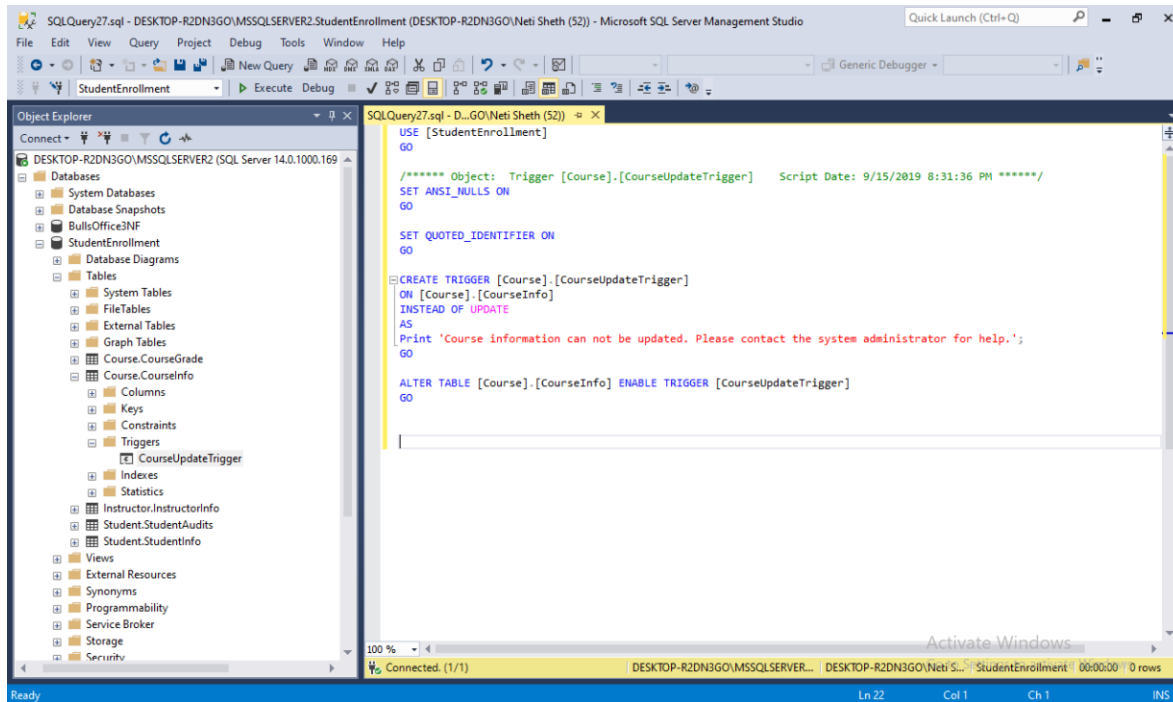

Testing the trigger:

3. Create a trigger to print a message for any action of your choice.

User story: As a course advisor, I want to restrict any changes to the current courses.

This trigger will display an error message instead of update operation.

Testing the trigger: